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  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:28:41 ON 09 JUN 2003

=> fil .bec
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
       ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 12:29:00 ON 09 JUN 2003
ALL COPYRIGHTS AND RESTRICTIONS APPLY.  SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s protease# or metalloprote?
FILE 'MEDLINE'
         68186 PROTEASE#
         18271 METALLOPROTE?
L1       83379 PROTEASE# OR METALLOPROTE?

FILE 'SCISEARCH'
         62515 PROTEASE#
         19102 METALLOPROTE?
L2       79031 PROTEASE# OR METALLOPROTE?

FILE 'LIFESCI'
         23501 PROTEASE#
          3573 METALLOPROTE?
L3       26338 PROTEASE# OR METALLOPROTE?

FILE 'BIOTECHDS'
         15100 PROTEASE#
           291 METALLOPROTE?
L4       15184 PROTEASE# OR METALLOPROTE?

FILE 'BIOSIS'
         76047 PROTEASE#
         20473 METALLOPROTE?
L5       94307 PROTEASE# OR METALLOPROTE?

FILE 'EMBASE'
         48561 PROTEASE#
         15911 METALLOPROTE?
L6       62559 PROTEASE# OR METALLOPROTE?

FILE 'HCAPLUS'
         88189 PROTEASE#
         18656 METALLOPROTE?
L7      104109 PROTEASE# OR METALLOPROTE?

FILE 'NTIS'
           572 PROTEASE#
           199 METALLOPROTE?
L8         735 PROTEASE# OR METALLOPROTE?

FILE 'ESBIOBASE'
         29394 PROTEASE#
          8464 METALLOPROTE?
L9       35998 PROTEASE# OR METALLOPROTE?

FILE 'BIOTECHNO'
         25310 PROTEASE#
          7892 METALLOPROTE?
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L10      32103 PROTEASE# OR METALLOPROTE?

FILE 'WPIDS'
         12445 PROTEASE#
          1533 METALLOPROTE?
L11      13658 PROTEASE# OR METALLOPROTE?

TOTAL FOR ALL FILES
L12     547401 PROTEASE# OR METALLOPROTE?

=> s cobra and venom(5a)l12
FILE 'MEDLINE'
          3090 COBRA
         13164 VENOM
           371 VENOM(5A)L1
L13         16 COBRA AND VENOM(5A)L1

FILE 'SCISEARCH'
          2059 COBRA
         13570 VENOM
           377 VENOM(5A)L2
L14         28 COBRA AND VENOM(5A)L2

FILE 'LIFESCI'
           751 COBRA
          6042 VENOM
           181 VENOM(5A)L3
L15           7 COBRA AND VENOM(5A)L3

FILE 'BIOTECHDS'
            47 COBRA
           400 VENOM
            14 VENOM(5A)L4
L16           1 COBRA AND VENOM(5A)L4

FILE 'BIOSIS'
          3298 COBRA
         18607 VENOM
           487 VENOM(5A)L5
L17         30 COBRA AND VENOM(5A)L5

FILE 'EMBASE'
          2052 COBRA
         16234 VENOM
           350 VENOM(5A)L6
L18         14 COBRA AND VENOM(5A)L6

FILE 'HCAPLUS'
          3694 COBRA
         19670 VENOM
           617 VENOM(5A)L7
L19         28 COBRA AND VENOM(5A)L7

FILE 'NTIS'
           595 COBRA
           295 VENOM
             6 VENOM(5A)L8
L20           0 COBRA AND VENOM(5A)L8

FILE 'ESBIOBASE'
           489 COBRA
          3763 VENOM
           201 VENOM(5A)L9
L21         10 COBRA AND VENOM(5A)L9
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FILE 'BIOTECHNO'
          585 COBRA
         3863 VENOM
          171 VENOM(5A)L10
L22         5 COBRA AND VENOM(5A)L10

FILE 'WPIDS'
          114 COBRA
          843 VENOM
           20 VENOM(5A)L11
L23         3 COBRA AND VENOM(5A)L11

TOTAL FOR ALL FILES
L24       142 COBRA AND VENOM(5A) L12

=> s naja and venom(5a)l12
FILE 'MEDLINE'
         1279 NAJA
        13164 VENOM
          371 VENOM(5A)L1
L25         8 NAJA AND VENOM(5A)L1

FILE 'SCISEARCH'
         1167 NAJA
        13570 VENOM
          377 VENOM(5A)L2
L26         9 NAJA AND VENOM(5A)L2

FILE 'LIFESCI'
          604 NAJA
         6042 VENOM
          181 VENOM(5A)L3
L27         4 NAJA AND VENOM(5A)L3

FILE 'BIOTECHDS'
           25 NAJA
          400 VENOM
           14 VENOM(5A)L4
L28         1 NAJA AND VENOM(5A)L4

FILE 'BIOSIS'
         2670 NAJA
        18607 VENOM
          487 VENOM(5A)L5
L29        14 NAJA AND VENOM(5A)L5

FILE 'EMBASE'
         1081 NAJA
        16234 VENOM
          350 VENOM(5A)L6
L30         7 NAJA AND VENOM(5A)L6

FILE 'HCAPLUS'
         2795 NAJA
        19670 VENOM
          617 VENOM(5A)L7
L31        26 NAJA AND VENOM(5A)L7

FILE 'NTIS'
           44 NAJA
          295 VENOM
            6 VENOM(5A)L8
L32         0 NAJA AND VENOM(5A)L8
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FILE 'ESBIOBASE'
          299 NAJA
         3763 VENOM
          201 VENOM(5A)L9
L33         7 NAJA AND VENOM(5A)L9

FILE 'BIOTECHNO'
          309 NAJA
         3863 VENOM
          171 VENOM(5A)L10
L34         5 NAJA AND VENOM(5A)L10

FILE 'WPIDS'
           33 NAJA
          843 VENOM
           20 VENOM(5A)L11
L35         2 NAJA AND VENOM(5A)L11

TOTAL FOR ALL FILES
L36        83 NAJA AND VENOM(5A) L12

=> s pgsl or p(w)selectin
FILE 'MEDLINE'
            4 PGSL
      2138212 P
         8457 SELECTIN
         3342 P(W)SELECTIN
L37      3345 PGSL OR P(W)SELECTIN

FILE 'SCISEARCH'
            6 PGSL
       973480 P
        11148 SELECTIN
         4825 P(W)SELECTIN
L38      4830 PGSL OR P(W)SELECTIN

FILE 'LIFESCI'
            2 PGSL
       184345 P
         1865 SELECTIN
          523 P(W)SELECTIN
L39       525 PGSL OR P(W)SELECTIN

FILE 'BIOTECHDS'
            1 PGSL
        26153 P
          173 SELECTIN
           57 P(W)SELECTIN
L40        57 PGSL OR P(W)SELECTIN

FILE 'BIOSIS'
            4 PGSL
      1009492 P
         9958 SELECTIN
         4089 P(W)SELECTIN
L41      4092 PGSL OR P(W)SELECTIN

FILE 'EMBASE'
            4 PGSL
       818966 P
         7629 SELECTIN
         2581 P(W)SELECTIN
L42      2584 PGSL OR P(W)SELECTIN
```

```
FILE 'HCAPLUS'
             7 PGSL
       2122913 P
          7152 SELECTIN
          2716 P(W)SELECTIN
L43       2720 PGSL OR P(W)SELECTIN

FILE 'NTIS'
             0 PGSL
         57974 P
            14 SELECTIN
             5 P(W)SELECTIN
L44          5 PGSL OR P(W)SELECTIN

FILE 'ESBIOBASE'
             3 PGSL
        299255 P
          4491 SELECTIN
          1715 P(W)SELECTIN
L45       1717 PGSL OR P(W)SELECTIN

FILE 'BIOTECHNO'
             1 PGSL
        175157 P
          3030 SELECTIN
           921 P(W)SELECTIN
L46        922 PGSL OR P(W)SELECTIN

FILE 'WPIDS'
             2 PGSL
        314179 P
           421 SELECTIN
           132 P(W)SELECTIN
L47        132 PGSL OR P(W)SELECTIN

TOTAL FOR ALL FILES
L48      20929 PGSL OR P(W) SELECTIN

=> s l48 and l12
FILE 'MEDLINE'
L49         72 L37 AND L1

FILE 'SCISEARCH'
L50        100 L38 AND L2

FILE 'LIFESCI'
L51         11 L39 AND L3

FILE 'BIOTECHDS'
L52          6 L40 AND L4

FILE 'BIOSIS'
L53         65 L41 AND L5

FILE 'EMBASE'
L54         48 L42 AND L6

FILE 'HCAPLUS'
L55         64 L43 AND L7

FILE 'NTIS'
L56          0 L44 AND L8
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FILE 'ESBIOBASE'
L57          30 L45 AND L9

FILE 'BIOTECHNO'
L58          24 L46 AND L10

FILE 'WPIDS'
L59          14 L47 AND L11

TOTAL FOR ALL FILES
L60         434 L48 AND L12

=> s mocarhagin
FILE 'MEDLINE'
L61          18 MOCARHAGIN

FILE 'SCISEARCH'
L62          17 MOCARHAGIN

FILE 'LIFESCI'
L63           5 MOCARHAGIN

FILE 'BIOTECHDS'
L64           1 MOCARHAGIN

FILE 'BIOSIS'
L65          20 MOCARHAGIN

FILE 'EMBASE'
L66          14 MOCARHAGIN

FILE 'HCAPLUS'
L67          19 MOCARHAGIN

FILE 'NTIS'
L68           0 MOCARHAGIN

FILE 'ESBIOBASE'
L69          13 MOCARHAGIN

FILE 'BIOTECHNO'
L70           7 MOCARHAGIN

FILE 'WPIDS'
L71           2 MOCARHAGIN

TOTAL FOR ALL FILES
L72         116 MOCARHAGIN

=> s (l24 or l36 or l60 or l72) not 1999-2003/py
FILE 'MEDLINE'
       2189187 1999-2003/PY
L73          48 (L13 OR L25 OR L49 OR L61) NOT 1999-2003/PY

FILE 'SCISEARCH'
       4226003 1999-2003/PY
L74          47 (L14 OR L26 OR L50 OR L62) NOT 1999-2003/PY

FILE 'LIFESCI'
        437415 1999-2003/PY
L75          12 (L15 OR L27 OR L51 OR L63) NOT 1999-2003/PY

FILE 'BIOTECHDS'
         74685 1999-2003/PY
```

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L76          3 (L16 OR L28 OR L52 OR L64) NOT 1999-2003/PY

FILE 'BIOSIS'
       2332442 1999-2003/PY
L77         58 (L17 OR L29 OR L53 OR L65) NOT 1999-2003/PY

FILE 'EMBASE'
       1919933 1999-2003/PY
L78         35 (L18 OR L30 OR L54 OR L66) NOT 1999-2003/PY

FILE 'HCAPLUS'
       4098471 1999-2003/PY
L79         47 (L19 OR L31 OR L55 OR L67) NOT 1999-2003/PY

FILE 'NTIS'
         76488 1999-2003/PY
L80          0 (L20 OR L32 OR L56 OR L68) NOT 1999-2003/PY

FILE 'ESBIOBASE'
       1230535 1999-2003/PY
L81         18 (L21 OR L33 OR L57 OR L69) NOT 1999-2003/PY

FILE 'BIOTECHNO'
        509141 1999-2003/PY
L82         18 (L22 OR L34 OR L58 OR L70) NOT 1999-2003/PY

FILE 'WPIDS'
       3602893 1999-2003/PY
L83          0 (L23 OR L35 OR L59 OR L71) NOT 1999-2003/PY

TOTAL FOR ALL FILES
L84        286 (L24 OR L36 OR L60 OR L72) NOT 1999-2003/PY

=> dup rem l84
PROCESSING COMPLETED FOR L84
L85         115 DUP REM L84 (171 DUPLICATES REMOVED)

=> d tot

L85   ANSWER 1 OF 115  BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
TI    Isolated mocarhagin cobra venom
      protease, and nucleic acids encoding it;
         Mozambiquan spitting cobra venom recombinant
         metallo protease preparation by vector-mediated gene
         transfer and expression in host cell, used for inflammatory disease
         therapy
AU    Boodhoo A; Seehra J S; Shaw G; Sako D
AN    1999-00528  BIOTECHDS
PI    WO 9846771 22 Oct 1998

L85  ANSWER 2 OF 115     MEDLINE
TI   A balance of opposing signals within the cytoplasmic tail controls the
     lysosomal targeting of P-selectin.
SO   JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Oct 23) 273 (43) 27896-903.
     Journal code: 2985121R. ISSN: 0021-9258.
AU   Blagoveshchenskaya A D; Hewitt E W; Cutler D F
AN   1998447632     MEDLINE

L85  ANSWER 3 OF 115  LIFESCI    COPYRIGHT 2003 CSA
TI   Modulation of Lipopolysaccharide-Induced Monocyte Activation by
     Heparin-Binding Protein and Fucoidan
SO   Infection and Immunity, (19981200) vol. 66, no. 12, pp. 5842-5847.
     ISSN: 0019-9567.
AU   Heinzelmann, M.; Polk, H.C.,Jr.; Miller, F.N.
```

AN 1999:29079 LIFESCI

L85 ANSWER 4 OF 115 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
TI Expression of hirudin fusion proteins in mammalian cells: a strategy for prevention of intravascular thrombosis;
recombinant hirudin, CD4, **P-selectin** fusion protein expression in host cell, used in thrombosis gene therapy
SO Circulation; (1998) 98, 24, 2744-52
CODEN: CIRCAZ ISSN: 0009-7322
AU Riesbeck K; Chen D; Kemball-Cook G; McVey J H; George A J T; Tuddenham E G D; Dorling A; *Lechler R I
AN 1999-05489 BIOTECHDS

L85 ANSWER 5 OF 115 MEDLINE DUPLICATE 1
TI Effects of a **metalloproteinase** that truncates **P-selectin** glycoprotein ligand on neutrophil-induced cardiac dysfunction in ischemia/reperfusion.
SO JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, (1998 Dec) 30 (12) 2561-6.
Journal code: 0262322. ISSN: 0022-2828.
AU Lefer A M; Campbell B; Shin Y K
AN 1999144339 MEDLINE

L85 ANSWER 6 OF 115 MEDLINE
TI Quinine-dependent antibodies bind a restricted set of epitopes on the glycoprotein Ib-IX complex: characterization of the epitopes.
SO BLOOD, (1998 Oct 1) 92 (7) 2366-73.
Journal code: 7603509. ISSN: 0006-4971.
AU Burgess J K; Lopez J A; Berndt M C; Dawes I; Chesterman C N; Chong B H
AN 1998421381 MEDLINE

L85 ANSWER 7 OF 115 MEDLINE
TI Effects of 0.2 ppm ozone on biomarkers of inflammation in bronchoalveolar lavage fluid and bronchial mucosa of healthy subjects.
SO EUROPEAN RESPIRATORY JOURNAL, (1998 Jun) 11 (6) 1294-300.
Journal code: 8803460. ISSN: 0903-1936.
AU Krishna M T; Madden J; Teran L M; Biscione G L; Lau L C; Withers N J; Sandstrom T; Mudway I; Kelly F J; Walls A; Frew A J; Holgate S T
AN 1998319674 MEDLINE

L85 ANSWER 8 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Isolation and partial amino acid sequence of a novel **metalloprotease** from the **venom** of the colubrid snake Hydrodynastes gigas (false water **cobra**.
SO Toxicon, (Sept., 1998) Vol. 36, No. 9, pp. 1250.
Meeting Info.: 12th World Congress on Animal, Plant and Microbial Toxins Cuernavaca, Mexico, USA September 21-26, 1997
ISSN: 0041-0101.
AU Mackessy, Stephen P. (1)
AN 1998:460421 BIOSIS

L85 ANSWER 9 OF 115 MEDLINE DUPLICATE 2
TI Aprotinin reduces the expression of **p-selectin** on the surface of platelet and leukocyte-platelet conjugates.
SO ARTIFICIAL ORGANS, (1998 Dec) 22 (12) 1018-22.
Journal code: 7802778. ISSN: 0160-564X.
AU Inui K; Shimazaki Y; Watanabe T; Kuraoka S; Uesho K; Uchida T; Shiono S
AN 1999091321 MEDLINE

L85 ANSWER 10 OF 115 HCAPLUS COPYRIGHT 2003 ACS
TI The composition of **Naja naja** venom samples from three districts of West Bengal, India
SO Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology (1998), 119A(2), 621-627
CODEN: CBPAB5; ISSN: 0300-9629

AU Mukherjee, A. K.; Maity, C. R.
AN 1998:94023 HCAPLUS
DN 128:189384

L85 ANSWER 11 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Evaluation of the anticoagulant effects of a highly specific snake venom metalloproteinase.
SO Blood, (Nov. 15, 1998) Vol. 92, No. 10 SUPPL. 1 PART 1-2, pp. 552A. Meeting Info.: 40th Annual Meeting of the American Society of Hematology Miami Beach, Florida, USA December 4-8, 1998 The American Society of Heamatology
. ISSN: 0006-4971.
AU Kumar, A.; Patel, H.; Rajewski, J.; Parmar, P.; Bond, M.; Shaw, G.; Sako, D.; Keith, J. C., Jr.; Schaub, R. G.
AN 1999:120062 BIOSIS

L85 ANSWER 12 OF 115 MEDLINE DUPLICATE 3
TI Purification and characterization of kaouthiagin, a von Willebrand factor-binding and -cleaving **metalloproteinase** from Naha kaouthia **cobra venom**.
SO THROMBOSIS AND HAEMOSTASIS, (1998 Sep) 80 (3) 499-505.
Journal code: 7608063. ISSN: 0340-6245.
AU Hamako J; Matsui T; Nishida S; Nomura S; Fujimura Y; Ito M; Ozeki Y; Titani K
AN 1998430434 MEDLINE

L85 ANSWER 13 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI cDNA cloning and expression of cobrin, the C3-cleaving **metalloprotease** from **Cobra venom**.
SO Molecular Immunology, (April-May, 1998) Vol. 35, No. 6-7, pp. 408. Meeting Info.: XVII International Complement Workshop Rhodes, Greece October 11-16, 1998
ISSN: 0161-5890.
AU Bambai, Bijam; Teppke, Manfred; Bredehorst, Reinhard; Vogel, Carl-Wilhelm
AN 1998:521936 BIOSIS

L85 ANSWER 14 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI The molecular and cellular biology of pancreatic cancer.
SO Critical Reviews in Eukaryotic Gene Expression, (1998) Vol. 8, No. 3-4, pp. 377-393.
ISSN: 1045-4403.
AU Perugini, Richard A.; McDade, Theodore P.; Vittimberga, Frank J., Jr.; Callery, Mark P. (1)
AN 1999:17392 BIOSIS

L85 ANSWER 15 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI cDNA cloning and expression of cobrin, the C3-cleaving **metalloprotease** from **cobra venom**
SO MOLECULAR IMMUNOLOGY, (APR-MAY 1998) Vol. 35, No. 6-7, Sp. iss. SI, pp. 311-311.
Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND.
ISSN: 0161-5890.
AU Bambai B (Reprint); Teppke M; Bredehorst R; Vogel C W
AN 1998:745708 SCISEARCH

L85 ANSWER 16 OF 115 MEDLINE DUPLICATE 4
TI Enhanced activation of platelets with abnormal release of RANTES in human immunodeficiency virus type 1 infection.
SO FASEB JOURNAL, (1998 Jan) 12 (1) 79-89.
Journal code: 8804484. ISSN: 0892-6638.
AU Holme P A; Muller F; Solum N O; Brosstad F; Froland S S; Aukrust P
AN 1998099250 MEDLINE

L85 ANSWER 17 OF 115 MEDLINE DUPLICATE 5
TI The neutrophil and preeclampsia.
SO SEMINARS IN REPRODUCTIVE ENDOCRINOLOGY, (1998) 16 (1) 57-64. Ref: 98
Journal code: 8308354. ISSN: 0734-8630.
AU Clark P; Boswell F; Greer I A
AN 1998318677 MEDLINE

L85 ANSWER 18 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI **Mocarhagin**, a **cobra venom protease**
, and therapeutic uses thereof.
SO Official Gazette of the United States Patent and Trademark Office Patents, (Aug. 19, 1997) Vol. 1201, No. 3, pp. 2175.
ISSN: 0098-1133.
AU Berndt, M. C.; Dunlop, L.; Andrews, R.; Deluca, M.
AN 2002:82166 BIOSIS

L85 ANSWER 19 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI Factor Xa as an interface between coagulation and inflammation - Molecular mimicry of factor Xa association with effector cell **protease** receptor-1 induces acute inflammation in vivo
SO JOURNAL OF CLINICAL INVESTIGATION, (15 MAY 1997) Vol. 99, No. 10, pp. 2446-2451.
Publisher: ROCKEFELLER UNIV PRESS, 1114 FIRST AVE, 4TH FL, NEW YORK, NY 10021.
ISSN: 0021-9738.
AU Cirino G; Cicala C; Bucci M; Sorrentino L; Ambrosini G; DeDominicis G; Altieri D C (Reprint)
AN 97:425451 SCISEARCH

L85 ANSWER 20 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI Kaouthiagin, a **metalloproteinase** purified from **Naja** kaouthia **cobra venom**, specifically binds to and cleaves von Willebrand factor.
SO BLOOD, (15 NOV 1997) Vol. 90, No. 10, Part 1, Supp. [1], pp. 2071-2071.
Publisher: W B SAUNDERS CO, INDEPENDENCE SQUARE WEST CURTIS CENTER, STE 300, PHILADELPHIA, PA 19106-3399.
ISSN: 0006-4971.
AU Matsui T (Reprint); Hamako J; Fujimura Y; Nishida S; Ito M; Ozeki Y; Titani K; Takamatsu J
AN 97:879006 SCISEARCH

L85 ANSWER 21 OF 115 MEDLINE DUPLICATE 6
TI A tissue plasminogen activator/**P-selectin** fusion protein is an effective thrombolytic agent.
SO CIRCULATION, (1997 Feb 4) 95 (3) 715-22.
Journal code: 0147763. ISSN: 0009-7322.
AU Fujise K; Revelle B M; Stacy L; Madison E L; Yeh E T; Willerson J T; Beck P J
AN 97176623 MEDLINE

L85 ANSWER 22 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Kaouthiagin, a **metalloproteinase** purified from **Naja** kaouthia **cobra venom**, specifically binds to and cleaves von Willebrand factor.
SO Blood, (Nov. 15, 1997) Vol. 90, No. 10 SUPPL. 1 PART 1, pp. 466A.
Meeting Info.: 39th Annual Meeting of the American Society of Hematology San Diego, California, USA December 5-9, 1997 The American Society of Hematology
. ISSN: 0006-4971.
AU Matsui, T.; Hamako, J.; Fujimura, Y.; Nishida, S.; Ito, M.; Ozeki, Y.; Titani, K.; Takamatsu, J.
AN 1998:68380 BIOSIS

L85 ANSWER 23 OF 115 MEDLINE

TI Postangioplasty restenosis: platelet activation and the coagulation-fibrinolysis system as possible factors in the pathogenesis of restenosis.
SO AMERICAN HEART JOURNAL, (1997 Apr) 133 (4) 387-92.
Journal code: 0370465. ISSN: 0002-8703.
AU Ishiwata S; Tukada T; Nakanishi S; Nishiyama S; Seki A
AN 97240357 MEDLINE

L85 ANSWER 24 OF 115 MEDLINE DUPLICATE 7
TI Thrombosis and atherosclerosis.
SO CURRENT OPINION IN LIPIDOLOGY, (1997 Oct) 8 (5) 320-8. Ref: 89
Journal code: 9010000. ISSN: 0957-9672.
AU Holvoet P; Collen D
AN 97476673 MEDLINE

L85 ANSWER 25 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Tetanus toxin inhibits activation-dependent **P-selectin** surface expression in permeabilized platelets.
SO Blood, (Nov. 15, 1997) Vol. 90, No. 10 SUPPL. 1 PART 1, pp. 282A.
Meeting Info.: 39th Annual Meeting of the American Society of Hematology San Diego, California, USA December 5-9, 1997 The American Society of Hematology
. ISSN: 0006-4971.
AU Flaumenhaft, R. (1); Croce, K.; Furie, B. C.; Furie, B.
AN 1998:67550 BIOSIS

L85 ANSWER 26 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI Endothelial cell injury in cardiovascular surgery: The systemic inflammatory response
SO ANNALS OF THORACIC SURGERY, (JAN 1997) Vol. 63, No. 1, pp. 277-284.
Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY 10010.
ISSN: 0003-4975.
AU Boyle E M; Pohlman T H; Johnson M C; Verrier E D (Reprint)
AN 97:71167 SCISEARCH

L85 ANSWER 27 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI The role of the endothelium in inflammation and tumor metastasis
SO INTERNATIONAL JOURNAL OF MICROCIRCULATION-CLINICAL AND EXPERIMENTAL, (OCT 1997) Vol. 17, No. 5, pp. 257-272.
Publisher: KARGER, ALLSCHWILERSTRASSE 10, CH-4009 BASEL, SWITZERLAND.
ISSN: 0167-6865.
AU Siegel G (Reprint); Malmsten M
AN 97:827869 SCISEARCH

L85 ANSWER 28 OF 115 LIFESCI COPYRIGHT 2003 CSA
TI Role of macrophages in vascular tissue remodelling
SO TRANSPLANT IMMUNOL., (19970000) vol. 5, no. 3, pp. 173-176.
ISSN: 0966-3274.
AU Wahl, L.M.; Shankavaram, U.; Zhang, Yahong
AN 1998:29437 LIFESCI

L85 ANSWER 29 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Preoperative platelet dysfunction increases the benefit of aprotinin in cardiopulmonary bypass.
SO Annals of Thoracic Surgery, (1997) Vol. 63, No. 1, pp. 57-63.
ISSN: 0003-4975.
AU Ray, Michael J.; Marsh, Neville A.; Just, Sarah J. E.; Perrin, Emma J.; O'Brien, Mark F.; Hawson, Geoffrey A. T.
AN 1997:106848 BIOSIS

L85 ANSWER 30 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI The systemic inflammatory response
SO ANNALS OF THORACIC SURGERY, (OCT 1997) Vol. 64, No. 4, Supp. [S], pp.

S31-S37.
Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY 10010.
ISSN: 0003-4975.
AU Boyle E M; Pohlman T H; Johnson M C; Verrier E D (Reprint)
AN 97:801914 SCISEARCH

L85 ANSWER 31 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI
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L85 ANSWER 10 OF 115 HCAPLUS COPYRIGHT 2003 ACS
AB The variation in the compn. of **Naja naja** venoms from three neighboring districts of West Bengal, eastern India and the corresponding differences in the severity of pathogenesis due to venom compn. variation are reported. These venom samples differ with respect to chromatog. elution profile and enzyme activity assocd. with each fraction. Presence of higher quantities of basic phospholipase and plasma protein hydrolase in the venom samples of Burdwan and Purulia make them more toxic than Midnapur venom sample. A polyvalent antivenom manufd. in western India was hardly effective in neutralizing the pathobiol. manifestation of the venom samples from eastern India.

L85 ANSWER 20 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI

L85 ANSWER 32 OF 115 MEDLINE DUPLICATE 8
AB Platelet adhesion to the subendothelium is the initiating event in hemostasis and thrombosis and involves the binding of von Willebrand factor (vWF) by the platelet membrane glycoprotein (GP) Ib-IX complex. The alpha-chain of GP Ib contains binding sites for both vWF and alpha-thrombin within a 45-kDa N-terminal tryptic fragment. In the present study, we have further delineated these sites using smaller proteolytic fragments and functional antibodies. **Mocarhagin**, a **cobra** venom metallaproteinase, generates the fragment His-1-Glu-282, while cathepsin G, a neutrophil granule serine protease, generates a slightly smaller fragment, His-1-Leu-275. His-1-Glu-282 was as effective as intact soluble GP Ibalpha (glycocalicin) in inhibiting botrocetin-dependent binding of vWF to washed platelets (IC50 approximately 0.3 microM) whereas His-1-Leu-275 was an order of magnitude less effective (IC50 approximately 3 microM). Residues Tyr-276-Glu-282 (YDYYPEE) are part of an anionic region homologous to thrombin-binding molecules such as hirudin. In ligand blot analysis, thrombin blotted the His-1-Glu-282 fragment, but not His-1-Leu-275. The three tyrosine residues within Tyr-276-Glu-282 meet the consensus criteria for O-sulfation. A method was developed to distinguish O-sulfated from nonsulfated tyrosine residues based on differences in the UV absorbance spectra. Residues Tyr-276-Glu-282 were isolated from glycocalicin by proteolysis with **mocarhagin** and cathepsin G. Ion spray mass spectrometry confirmed that Tyr-278 and Tyr-279 was only approximately 50% O-sulfated. Four anti-GP Ibalpha monoclonal antibodies (SZ2, ES85, C34 and VM16d) were found to be modulator-specific, strongly inhibiting botrocetin-dependent binding of vWF, but having less or no effect on ristocetin-dependent vWF binding. These antibodies also inhibited the binding of thrombin to fixed platelets. Immunoprecipitation with GP ibalpha fragments defined the epitopes for these antibodies as SZ2 (Tyr-276-Glu-282), ES85 (Asp-283-Arg-293), C34 (His-1-Glu-282), and VM16d (His-1-Leu-275). An antibody which inhibited ristocetin-dependent, as well as botrocetin-dependent, vWF binding but had no effect on thrombin binding (Ak2) had an epitope within His-1-Leu-275. These findings indicate that the sulfated tyrosine/anionic GP Ibalpha residues

Tyr-276-Glu-282 are important for the binding of thrombin and botrocetin-dependent binding of thrombin and the botrocetin-dependent binding of vWF, but that vWF also interacts with residues within His-1-Leu-275.

L85 ANSWER 35 OF 115 MEDLINE DUPLICATE 10
AB **Mocarhagin**, a **cobra venom metalloproteinase** from **Naja** mocambique mocambique, has previously been shown to cleave selectively two mucin-like substrates on platelets and neutrophils within anionic amino acid sequences containing sulfated tyrosines. We now show that purified **mocarhagin** has haemagglutinin activity, and a similar profile for inhibition of **mocarhagin**-dependent haemagglutination and proteolysis suggests that the lectin-like domain may account for its substrate specificity. In addition, immunologically and functionally related proteins were detected in other Elapidae venoms.

L85 ANSWER 43 OF 115 MEDLINE DUPLICATE 14
AB Initial rolling of circulating neutrophils on a blood vessel wall prior to adhesion and transmigration to damaged tissue is dependent upon **P-selectin** expressed on endothelial cells and its specific neutrophil receptor, the **P-selectin** glycoprotein ligand-1 (PSGL-1). Pretreatment of neutrophils, HL60 cells, or a recombinant fucosylated soluble form of PSGL-1 (sPSGL-1.T7) with the **cobra venom metalloproteinase**, **mocarhagin**, completely abolished binding to purified **P-selectin** in a time-dependent and EDTA- and diisopropyl fluorophosphate-inhibitable manner consistent with **mocarhagin** selectively cleaving PSGL-1. A polyclonal antibody against the N-terminal peptide Gln-1-Glu-15 of mature PSGL-1 immunoprecipitated sPSGL-1.T7 but not sPSGL-1.T7 treated with **mocarhagin**, indicating that the **mocarhagin** cleavage site was near the N terminus. A single **mocarhagin** cleavage site between Tyr-10 and Asp-11 of mature PSGL-1 was determined by N-terminal sequencing of **mocarhagin** fragments of sPSGL-1.T7 and is within a highly negatively charged amino acid sequence 1-QATEYEYLDY decreases DFLPETEPPE, containing three tyrosine residues that are consensus sulfation sites. Consistent with a functional role of this region of PSGL-1 in binding **P-selectin**, an affinity-purified polyclonal antibody against residues Gln-1-Glu-15 of PSGL-1 strongly inhibited **P-selectin** binding to neutrophils, whereas an antibody against residues Asp-9-Arg-23 was noninhibitory. These combined data strongly suggest that the N-terminal anionic/sulfated tyrosine motif of PSGL-1 as well as downstream sialylated carbohydrate is essential for binding of **P-selectin** by neutrophils.

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L85 ANSWER 63 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISIDUPLICATE 25

L85 ANSWER 70 OF 115 HCAPLUS COPYRIGHT 2003 ACS
AB A hemorrhagic protein (60 kDa), HR1B, present in the venom of Trimeresurus flavoviridis is a mosaic protein consisting of an N-terminal metalloproteinase-domain, a disintegrin (platelet aggregation inhibitor)-like domain, and a unique C-terminal Cys-rich domain. Since the gross structures of HR1B and protein precursors of disintegrins, trigramin, and rhodostomin, all of which contain the metalloproteinase domain, are similar, many disintegrins so far detected in snake venoms are assumed to be autoproteolytic fragments released from precursors. In ongoing related expts., the newly purified hemorrhagic

metalloproteinases, HR1A from T. flavoviridis **venom** and HT-1 from Crotalus ruber ruber venom, in addn. to HR1B, were autoproteolyzed, in the absence of Ca2+, at 37.degree. for 3-12 h. Under these conditions, HR1A, HR1B, and HT-1 each released a single major fragment of 32, 34, and 31 kDa, resp. The entire amino acid sequences of the isolated fragments indicated the presence of disintegrin-like and Cys-rich domains in the C-terminal regions of HR1A, HR1B, and HT-1, resp. It seems likely that so-called disintegrins probably originate from various **metalloproteinases** present in **venom**. On the bases of peptide sequences close to the autoproteolytic cleavage sites of these metalloproteinases and the sites of fibrinogen cleaved by these enzymes, new intramolecularly quenched fluorogenic peptide substrates were synthesized. Among the 10 peptides tested, 2-aminobenzoyl (Abz)-Ser-Pro-Met-Leu-2,4-dinitroanilinoethylamide (Dna) proved to be the best substrate for **venom metalloproteinase**, as deduced from kinetic analyses.

L85 ANSWER 78 OF 115 HCAPLUS COPYRIGHT 2003 ACS

AB Examn. of the edema-inducing activity of king **cobra** (O. hannah) venom fractions obtained by Sephadex G-50 gel filtration indicated that the high-mol.-wt. protein fraction (mol. wt. > 50,000) was the major edema-inducing fraction. Further fractionations by DEAE-Sephacel chromatog. showed that the major edema-inducing components were five protease fractions. The most potent edema-inducing protease fraction was further purified and the purified material corresponded to hannahtoxin, the major king **cobra venom** hemorrhagic **protease**. Treatment of the purified edema-inducing protease with EDTA abolished both the edema inducing and protease activities.

L85 ANSWER 79 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

L85 ANSWER 82 OF 115 SCISEARCH COPYRIGHT 2003 THOMSON ISI

AB A comparison of the structures of a precursor of trigramin (a disintegrin), metalloproteinases, disintegrins and related proteins, suggests the existence of common precursors for metalloprotenases and disintegrins. The proposed common precursor and related proteins have four distinct domains (A-D). Domain B contains the metal binding site and the catalytic Glu residue, which comprise the active site of metalloproteinases. Domain C contains the Arg-Gly-Asp sequence and hence the ability to inhibit the activity of integrins. Domains A and D are unique and their biochemical or biological activity is unknown. The proposed precursor can be proteolytically cleaved at several interdomain sites, releasing the disintegrins and metalloproteinases. A survey of more than 100 **venom metalloproteinases** and disintegrins strongly supports the existence of precursor proteins and their structural domains. This is also upheld by the co-occurrence of metalloproteinases and disintegrins in the venoms of several genera of crotalid and viperid snakes. The likelihood of intradomain disulfide bridges, and accessibility of all interdomain cleavage sites also supports our contention. The susceptibility of the cleavage sites appears to be determined by nearby disulfide bridges and glycosylation. Recognition of the proposed structural domains of venom proteinases should help clarify the structure-function relationships of several related proteins, and influence the synthesis of recombinant disintegrins, metalloproteinases and related polypeptides.

L85 ANSWER 86 OF 115 HCAPLUS COPYRIGHT 2003 ACS

AB Venoms of 11 coral snake taxa, including M. albicinctus, M. corallinus, M. frontalis altirostris, M. frontalis brasiliensis, M. frontalis frontalis, M. fulvius fulvius, M. ibiboboca, M. lemniscatus, M. rondonianus, M. spixii spixii, and M. surinamensis surinamensis, were examd. for 13 enzymic activities. These were compared with venoms of three outgroup taxa: **Naja naja** kaouthia, Bungarus multicinctus, and Bothrops moojeni. Enzyme activity levels in Micrurus venoms were highly

variable from species to species. All venoms possessed phospholipase activity. Protease activity against synthetic or dyed natural substrates was generally negligible in all elapid venoms examd. By contrast, most Micrurus venoms displayed ample L-leucine aminopeptidase activity. Venom of M. surinamensis surinamensis was significantly different from those of its congeners in most assays.

L85 ANSWER 94 OF 115 MEDLINE DUPLICATE 36
AB A **protease** in the **venom** of Ophiophagus hannah (king **cobra**) has been purified to a homogeneous state by successive chromatographies on Sephadex G-100 superfine, DEAE-cellulose, hydroxyapatite and CM-polyvinylalcohol copolymer columns. The mol.wt as determined by SDS-PAGE and gel filtration was approximately 70,000. The purified enzyme possessed a specific activity approximately 1/25 that of crystalline trypsin, whereas it had no hemorrhagic activity. The substrate specificity was determined using oxidized insulin B-chain as a substrate; the enzyme cleaved the Asn3-Gln4, Gln4-His5, His10-Leu11, Ala14-Leu15 and Tyr16-Leu17 positions. The sites cleaved by the protease were compared to proteases from other snake venoms.

L85 ANSWER 103 OF 115 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Strong protein-protein interactions were detected among components of venom of the Indian **cobra** (N. **naja**). Interactions led to apparent heterogeneity observed upon column chromatography and disc electrophoresis. Toxic proteins apparently tended to form aggregates (homoaggregates), with the aggregates possessing different lethal potencies. Even the enzymes formed aggregates (heteroaggregates). Triton X-100 abolished most aggregation and yielded nearly electrophoretically homogenous proteins, without impairing the lethal potency of the neurotoxin. Nearly 12 enzyme activities were screened in crude **venom** and fractions. Significant **protease** activity was associated with **cobra venom** and some of its fractions. Fractions that apparently corresponded to cardiotoxins/cobramines, not known to be enzymatically active, displayed pyrophosphatase activity.

L85 ANSWER 107 OF 115 HCAPLUS COPYRIGHT 2003 ACS
AB **Protease** A from B. arietans **venom** has a broad specificity, mainly attacking the amino end of hydrophobic amino acid residues. This specificity is enhanced if the hydrophobic amino acid is preceded by 1 or 2 hydrophilic residues. The specificity of protease A was studied by digesting 3 protein substrates with the enzyme and isolating a no. of the resulting peptides.

L85 ANSWER 114 OF 115 HCAPLUS COPYRIGHT 2003 ACS
AB **Cobra** venom has been reported to contain only one protease, of a tryptic type. However, expts. on horse hemoglobin in a universal buffer in the range pH 1.0-10.5, gave peaks (of optical density) at pH 1.0, 3.0, 5.1, 6.5, and 9.2 indicating the presence of more than one **protease** in the **venom**. Exptl. details are given.

L85 ANSWER 115 OF 115 HCAPLUS COPYRIGHT 2003 ACS
AB The optimum pH for digestion of casein is approx. 8.0. The proteolytic activity of the venom is low, and digestion is soon stopped by a trypsin inhibitor which appears to be present. HCN and KCN also cause inactivation.

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             3 VENOM(5A) L12
             3 NAJA
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           185 METALLOPROTE?
             3 VENOM(5A) L12
             1 PGSL
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        156083 PRY<=1998
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           972 METALLOPROTE?
             6 VENOM(5A) L12
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       701717 PRY<=1998
                (PRY<=1998)
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L90  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2003 ACS        DUPLICATE 1
TI   Antibody compositions and methods for producing vascular occlusion
SO   PCT Int. Appl., 38 pp.
     CODEN: PIXXD2
IN   Stewart, Michael William; Person, Roland Henryk; Noujaim, Antoine
AN   2000:351397  HCAPLUS
DN   132:352773
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   WO 2000029029     A1    20000525       WO 1999-IB1809   19991110 <--
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
             MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1131106        A1    20010912       EP 1999-972110   19991110 <--
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             IE, SI, LT, LV, FI, RO
     JP 2002529521     T2    20020910       JP 2000-582075   19991110 <--
     US 2002168366     A1    20021114       US 2002-101731   20020321 <--

L90  ANSWER 2 OF 3  WPIDS (C) 2003 THOMSON DERWENT
TI   New angiogenesis inhibitors useful for treating solid tumors, leukemias,
     tumor metastasis, benign tumor, rheumatoid arthritis, psoriasis and ocular
     angiogenic diseases.
PI   WO 2000010506 A2 20000302 (200021)* EN   72p    A61K000-00      <--
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
            OA PT SD SE SL SZ UG ZW
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            GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG
            MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG
            UZ VN YU ZW
     AU 9955717    A  20000314 (200031)             A61K000-00
     US 6365364    B1 20020402 (200226)             C12Q001-56
IN   JENNY, N S; MANN, K G

L90  ANSWER 3 OF 3  WPIDS (C) 2003 THOMSON DERWENT
TI   New antisense oligonucleotides useful for treating e.g. pulmonary
     vasoconstruction, inflammation, allergies, asthma, hypertension,
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bronchitis, emphysema, respiratory distress syndrome, ischemia or cancers.
PI WO 2000009525 A2 20000224 (200018)* EN C07H000-00 <--
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
W: AU CA CN MX RU US
AU 9953374 A 20000306 (200030) C07H000-00
EP 1102786 A2 20010530 (200131) EN C07H021-04
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
CN 1317009 A 20011010 (200207) C07H021-04
MX 2001000971 A1 20010701 (200236) C07H000-00
IN NYCE, J W

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.61	51.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.56

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